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EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2000146859
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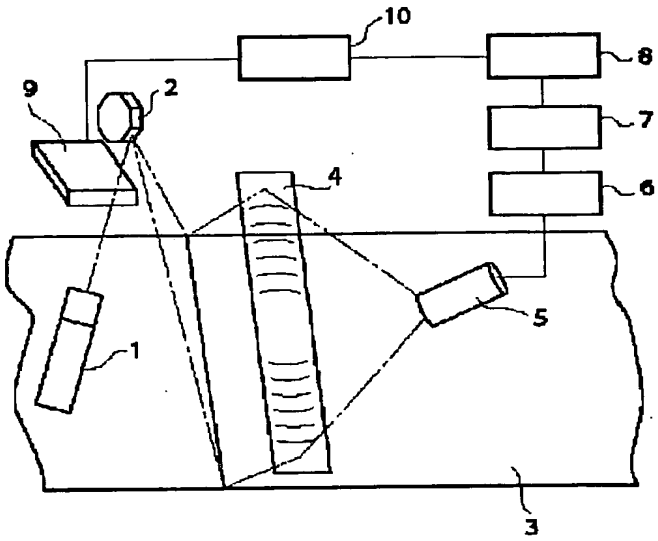
APPLICATION NUMBER : 10314487

APPLICANT : NKK CORP;

INVENTOR : SUYAMA TSUNEO;

INT.CL. : G01N 21/89

TITLE : SURFACE DEFECT INSPECTION DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To diagnose normal exhibition of inspection performance without stopping a line, by adding only a device of simple structure.

SOLUTION: A laser beam emitted from a laser beam source 1 is reflected by a rotary polygon mirror 2 to be changed into scanning light, and a surface of a steel plate 3 is scanned in the direction orthogonal to its ranning direction. Reflected light from the plate 3 is converged by a condenser lens 4 to be converted into an electric signal by a photomultiplier 5. A controllable optical element 9 is provided between the laser beam source 1 and the polygon mirror 2, and is synchronized with rotation of the polygon mirror 2 according to a command from a self-diagnosing mechanism part controlling device 10 to change the intensity of the laser beam temporarily. The reflected light from the steel plate 3 is changed, thereby generates a false defect. Self-diagnosis is conducted based on detection of the false defect as a prescribed defect signal.